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Product datasheet for RC209079

KIF17 (NM_020816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF17 (NM_020816) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIF17
Synonyms:	KIF3X; KIF17B; KLP-2; OSM-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209079 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCCGAGGCGGTGAAGGTTGTCGTGCGCTGCCGTCCCATGAACCAGCGGGAGCGAGAGCTGCGCT
GCCAGCCCGTGGTGACTGTGGACTGCGCGCGCGCCCAGTGCTGCATCCAGAACCCGGGCGCCGCCGACGA
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GCAGCGGGAAGTCCTTCACCATGCAGGGCCTGCCGGATCCGCCCTCCCAGAGAGGCATCATCCCCAGGGC
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GAGATCTACAATGAAGATGTCCGGGACCTCCTTGGGGCTGACACCAAGCAGAAGCTGGAGCTGAAGGAGC
ACCCAGAGAAGGGCGTGTACGTGAAGGGGCTGTCCATGCACACGGTGCACAGCGTGGCCCAGTGTGAGCA
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CAGTATGAGACAGTGGTGAAACCCAAGGTCTTCTCCACGACTGACACTCTGCCCAGTGACGATGTCTCCA
AGACTCAGGTTTCCTCCAGGTTTGCGGAGCTGCCCAAGGTGGAACCCTCCAAATCTGAGATTTCTCTGGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209079 protein sequence
Red=Cloning site Green=Tags(s)

MASEAVKVVVRCRPMNQRERELRCQPVVTVDCARAQCCIQNPGAADEPPKQFTFDGAYHVDHVTEQIYNE
IAYPLVEGVTEGYNGTIFAYGQTGSGKSFTMQGLPDPPSQRGIIPRAFEHVFESVQCAENTKFLVRASYL
EIYNEDVRDLLGADTKQKLELKEHPEKGVYVKGLSMHTVHSVAQCEHIMETGWKNRSVGYTLMNKDSSRS
HSIFTISIEMSAVDERGKDHLRAGKLNLVDLAGSERQSKTGATGERLKEATKINLSLSALGNVISALVDG
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REYQEEIKKLKAILTQQMSPSSLSALLSRQVPPDPVQVEEKLLPQPVIQHDMEAEKQLIREEYEERLARL
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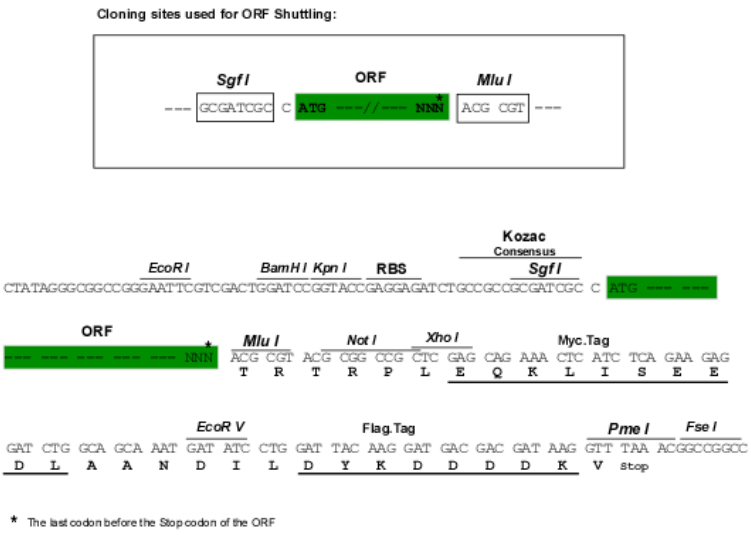
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6220_e04.zip

Restriction Sites: SgfI-MluI

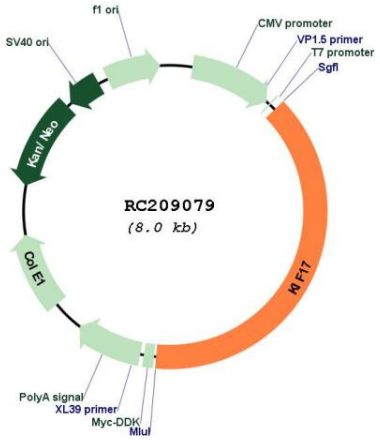
Cloning Scheme:



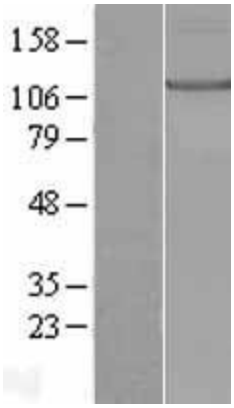
ACCN:	NM_020816
ORF Size:	3084 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020816.4
RefSeq Size:	4003 bp
RefSeq ORF:	3090 bp

Locus ID:	57576
UniProt ID:	Q9P2E2
Cytogenetics:	1p36.12
Protein Families:	Druggable Genome
MW:	115 kDa
Gene Summary:	Transports vesicles containing N-methyl-D-aspartate (NMDA) receptor 2B along microtubules. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209079



Western blot validation of overexpression lysate (Cat# [LY412287]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209079 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).